UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,386	09/29/2005	Youichi Arai	050639	3309
23850 VD A TZ OLUN	7590 10/05/2007	EXAMINER		
KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W.			TSO, EDWARD H	
Suite 400 WASHINGTO	N DC 20005	•	ART UNIT	PAPER NUMBER
Wilding	11, 50 20005		2838	
			MAIL DATE	DELIVERY MODE
			10/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary						
		10/551,386	ARAI ET AL.			
		Examiner	Art Unit			
	The MAILING DATE of this communication app	Edward Tso	with the correspondence add	lress		
Period fo				7000		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is used to the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 16(a). In no event, however, may rill apply and will expire SIX (6) No cause the application to become	NICATION.  y a reply be timely filed  TONTHS from the mailing date of this cone ABANDONED (35 U.S.C. § 133).	,		
Status	•					
1) 🗌	Responsive to communication(s) filed on	_•				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 (	).D. 11, 453 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-9 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-9 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	·				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Care Replacement drawing sheet(s) including the correction of the Oath or declaration is objected to by the Examine The Oath or declaration is objected to by the Examine The Oath or declaration is objected to by the Examine The Oath or declaration is objected to by the Examine The Oath or declaration is objected to by the Examine The Oath Oath Oath Oath Oath Oath Oath Oath	epted or b) objected drawing(s) be held in abe on is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFF	` '		
Priority L	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>9/05:12/05:5/06:10/06</u> .	Paper	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application			

#### **DETAILED ACTION**

#### Information Disclosure Statement

The IDSes filed 9/05, 12/05, 5/06 and 10/06 have all been considered and placed of record. The initialed copies are attached herewith.

# Specification

The disclosure should be carefully reviewed to ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Objections

Claims 1 and 5 are objected to because of the following informalities: the phrase "when the detected charging efficiency can be regarded as zero" is indefinite because it does not concretely and resolutely define the efficiency in mathematical term.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/551,386 Page 3

Art Unit: 2838

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Arai et al. (US 6,696,818). The reference discloses a charging efficiency is computed to be zero. See column 9, lines 49-51.

### Conclusion

Any inquiry concerning this communication should be directed to the Examiner at the below-listed number on every Tuesday, Thursday and Saturday.

By: <u>/Edward H Tso/</u>

EDWARD H TSO Primary Examiner (571) 272-2087